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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 0

Ivan S. Kavrukov, Esq. Cooper & Dunham LLP 1185 Avenue of the Americas New York, NY 10036 9409/2008 EXAMINER
CHENG, PETER L

ART UNIT PAPER NUMBER
2625

DATE MAILED: 04/09/2008

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFRMATION NO.

 10/662_667
 09/15/2003
 Takehiro Nakajima
 2271/71086
 1872

TITLE OF INVENTION: IMAGE PROCESSING SYSTEM, APPARATUS AND METHOD FOR UPDATING A PRINTER PROFILE BASED ON COMPARISON OF PREVIOUS AND CURRENT MEASUREMENTS OF COLOR CHART

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/09/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further c indicated unless correcte maintenance fee notificat	form should be used for correspondence including d below or directed oth ions.	or tran ig the l ierwise	smitting the ISSU Patent, advance or in Block 1, by (a						nould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block I for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying pagers. Each additional pager, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
7590 0409/2008 Ivan S. Kavrukov, Esq. Cooper & Dunham I.I.P 1185 Avenue of the Americas					Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmital is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPT0 (571) 273-2885, on the date indicated below.				
New York, NY 1	0036								(Depositor's name)
									(Signature)
					L				(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR			ATTORNEY DOCKET NO. CONFIRMATION NO.		
10/662,667	09/15/2003			Takehiro Nakajim	ıa			2271/71086	1872
TITLE OF INVENTION COMPARISON OF PRE		T MEA	ASUREMENTS OF	F COLOR CHART					
APPLN, TYPE	SMALL ENTITY	IS:	SUE FEE DUE	PUBLICATION FEE I	UE	PREV. PAID ISSUI	SFEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1440	\$300		\$0		\$1740	07/09/2008
EXAMI	NER		ART UNIT	CLASS-SUBCLASS	3				
CHENG, F			2625	358-001900	_				
"Fee Address" indi- PTO/SB/47; Rev 03-0; Number is required. 3. ASSIGNEE NAME AN	ondence address (or Cha v/122) attached. cation (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA cas an assignee is ident in 37 CFR 3.11. Comp	nge of	Correspondence ution form of a Customer E PRINTED ON T	or agents OR, alter (2) the name of a registered attorney 2 registered patent listed, no name wi	ip to mativ or a attor II be or typ he pa	3 registered paten rely, e firm (having as a sgent) and the nam meys or agents. If printed. ee) step in the first patents are a second patents are a sign assignment.	memb es of u no nam	er a 2o to e is 3	ocument has been filed for
Please check the appropri		catego					•	<u>. </u>	up entity Government
4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies				A check is enclosed. A check is enclosed. Payment by credit card. Form PTO-2038 is attached. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
	SMALL ENTITY state	s. See	37 CFR 1.27.					TTY status. Sec 37 CI	
interest as shown by the n	ecords of the United Sta	tes Pate	viii not be accepted ent and Trademark	Office.	nan u	ne applicant; a regi	sterea :	ittorney or agent; or th	e assignee or other party in
Authorized Signature						Date			
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/662,667	09/15/2003	Takehiro Nakajima	2271/71086	1872	
75	90 04/09/2008		EXAM	IINER	
Ivan S. Kavrukov, Esq.			CHENG,	PETER L	
Cooper & Dunham			ART UNIT	PAPER NUMBER	
1185 Avenue of the Americas New York, NY 10036			2625		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 976 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 976 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)				
10/662,667	NAKAJIMA, TAKEHIRO				
Examiner	Art Unit				
PETER L. CHENG	2625				

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. A This communication is responsive to 3/12/2008.

2. A The allowed claim(s) islare 2-4.6-23.25 and 27-37.

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

2. \square Certified copies of the priority documents have been received in Application No. _____

 Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has	THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requireme	₃nts
noted below.	Failure to timely comply will result in ABANDONMENT of this application.	
THIS THREE	-MONTH PERIOD IS NOT EXTENDABLE.	

4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

(a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

1) hereto or 2) to Paper No./Mail Date _____.

(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)

2.
Notice of Draftperson's Patent Drawing Review (PTO-948)

Information Disclosure Statements (PTO/SB/08),
 Paper No./Mail Date

Paper No./Mail Date
 Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. Notice of	Informal	Patent	Application
J. I VOLICE OF	IIIIOIIIIai	i atent	Application

 Interview Summary (PTO-413), Paper No./Mail Date .

7.

Examiner's Amendment/Comment

8. \boxtimes Examiner's Statement of Reasons for Allowance

9. Other _____.

/king poon/

Application/Control Number: 10/662,667 Page 2

Art Unit: 2625

Allowable Subject Matter

 Claims 2 – 4, 6 – 23, 25 and 27 - 37 are allowed. The following is an examiner's statement of reasons for allowance.

Claims 4, 21, 23, 25 and 37 are respectively directed to

- · an image processing apparatus,
- an image processing system.
- an image forming apparatus,
- · an image processing method, and
- a computer readable medium tangibly embodying a program of instructions executable by a computer to perform a method

Claims 4, 21 and 23 identify the uniquely distinct features of:

wherein the arithmetic unit <u>determines the number of color patches</u> based on an evaluation standard,

wherein the <u>evaluation standard includes</u> a newly measured patch value and <u>an</u>

<u>average of patch values previously measured</u> and stored as the history

information

Similarly, claims 25 and 37 identify the uniquely distinct features of:

wherein the number of color patches is determined based on an evaluation standard.

wherein the <u>evaluation standard includes a newly measured patch value and an</u>

<u>average of patch values previously measured</u> and stored as the history
information.

Claims 6 and 27 are respectively directed to

- · an image processing apparatus, and
- an image processing method,

Claim 6 identifies the uniquely distinct features of:

an <u>arithmetic unit that compares</u> the history information with information of new measurement of the color chart to <u>determine number of color patches</u>:

wherein the arithmetic unit compares a first difference with a second difference,

Art Unit: 2625

wherein the first difference is a difference between a newly measured patch value and a patch value measured last time and stored as the history information,

and the <u>second difference</u> is a difference between the newly measured patch value and an average value of the patch values previously measured and stored as the history information,

and when the first difference is equal to or greater than the second difference,
the arithmetic unit determines the number of color patches based on a third
difference.

wherein the <u>third difference is a difference between the newly measured patch</u> value and a patch value measured last but one.

Similarly, claim 27 identifies the uniquely distinct features of:

<u>comparing</u> the history information with information of new measurement of the color chart to <u>determine number of color patches</u>:

wherein the comparing includes <u>comparing a first difference with a second</u> <u>difference</u>.

Art Unit: 2625

wherein the first difference is a difference between a newly measured patch value and a patch value measured last time and stored as the history information.

and the second difference is a difference between the newly measured patch value and an average value of the patch values previously measured and stored as the history information.

and <u>determining the number of color patches based on a third difference, when</u> the first difference is equal to or greater than the second difference,

wherein the third difference is a difference between the newly measured patch value and a patch value measured last but one.

Claims 7 and 28 are respectively directed to

- an image processing apparatus, and
- · an image processing method,

Claim 7 identifies the uniquely distinct features of:

an <u>arithmetic unit that compares</u> the history information with information of new measurement of the color chart to determine number of color patches;

Art Unit: 2625

wherein the arithmetic unit compares a first difference with a second difference,

wherein the first difference is a difference between a newly measured patch value and a patch value measured last time and stored as the history information.

and the <u>second difference</u> is a difference between the newly measured patch value and an average value of the patch values previously measured and stored as the history information,

and when the first difference is less than the second difference, the arithmetic unit determines the number of color patches based on a third difference,

wherein the <u>third difference is a difference between the newly measured patch</u>

<u>value and a measured patch value having a minimum difference from a</u>

<u>representative vector indicating a representative color.</u>

Similarly, claim 28 identifies the uniquely distinct features of:

<u>comparing</u> the history information with information of new measurement of the color chart to <u>determine number of color patches</u>:

Art Unit: 2625

wherein the comparing includes <u>comparing a first difference with a second</u> difference.

wherein the first difference is a difference between a newly measured patch value and a patch value measured last time and stored as the history information.

and the second difference is a difference between the newly measured patch value and an average value of the patch values previously measured and stored as the history information,

and <u>determining the number of color patches based on a third difference, when</u> the first difference is less than the second difference.

wherein the third difference is a difference between the newly measured patch value and a measured patch value having a minimum difference from a representative vector indicating a representative color.

Applicant's claims include elements which are not taught by the <u>prior art</u> nor rendered obvious. None of the references cited in the final office action, KUMADA [US Patent Application 2002/0145744 A1], BALASUBRAMANIAN [US Patent 7,064,860 B1], or KULKARNI [US Patent 6,870,636 B2] teach these limitations.

Art Unit: 2625

Conclusion

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter L. Cheng whose telephone number is 571-270-3007. The examiner can normally be reached on MONDAY - FRIDAY, 8:30 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, King Y. Poon can be reached on 571-272-7440. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/662,667 Page 9

Art Unit: 2625

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/King Y. Poon/ Supervisory Patent Examiner, Art Unit 2625 /PLC/ April 9, 2008